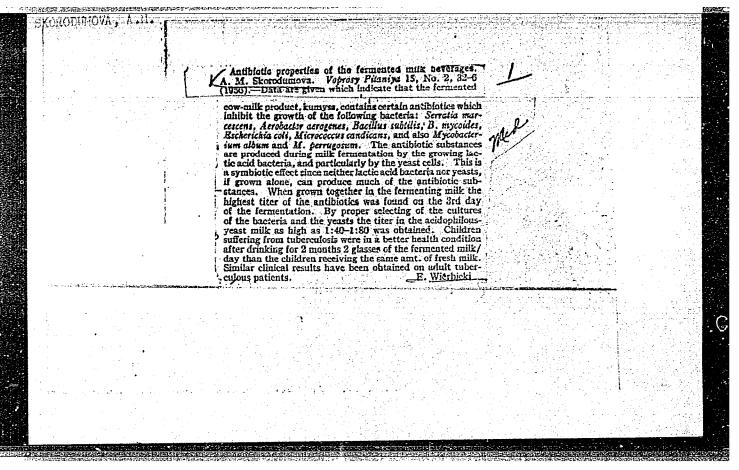
SKORODUMOVA, Aleksandra Mikhailevna.

[Dietetic and medicinal sour milk products and their production]
Dieticheskie i lechebaye kislemelechaye produkty i organizatsiia
ikh proizvedstva. Leningrad, Medgiz, 1955. 135 p. (MIRA 9:6)
(MILK, ACIDOPHILUS)



Country	:USSR y :Microbiology. Antibiosis and Symbiosis. Antibiotics.
Catogor	
Abs. Jo	ur :Ref Zhur-Biol., No 23, 1958, No 103756
Author	:Skorodumova, A. M.
Institu Titlo	:Antibiotics and Their Significance in the Milk Industry
oris Pu	b. : Dokl. Vses. konferentsii po molochn. delu. Moscow,
	Pel Kuorelti
Abstrac	ot mo abstract.
Card:	1/1
	F-35

SKORODUMOVA, Aleksandra Mikhaylovna; ZAKRZHEVSKIY, Ye.B., red.; KHARASH, G.A., tekhn. red.

[Dietitic and therapeutic fermented milk products; microbiological principles] Dieticheskie i lechebnye kislomolochnye produkty; mikrobiologicheskie osnovy. Izd.2., ispr. i dop. Leningrad, Gos. izd-vo med. lit-ry Medgiz, 1961. 203 p. (MIRA 14:8) (MIK, FERMENTED) (DAIRY PRODUCTS—MICROBIOLOGY)

SKOMODUMOVA, A.M. (Leningradskaya oblast')

Dietetic and medicinal sour milk products. Med. sestra 21 no.4:22-28
Ap '62. (MIRA 15:4)

(MILK, FERMENTED)

是在1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的1980年的

INIKHOV, G.S., zasl. deyatel' nauki i tekhniki, doktor khim. nauk, prof.; SKORODUMOVA, A.M., kand. biol. nauk; SHAPIRO, L.R. [deceased]; MILYUTINA, L.A., inzh.; DEMUROV, M.G., kand. sel'khoz. nauk; LEBEDEVA, K.S., kand. sel'khoz. nauk; KYURKCHAN, V.N.; VASILEVSKIY, V.G., inzh.; SAVINOVSKIY, N.G., kand. tekhn. nauk; VEDRASHKO, V.F., kand.med. nauk; SOKOLOVSKIY, V.P., prof.; BEGUNOV, V.L., inzh.; KAZENNOVA, A.R.; VEDRASHKO, V.F., kand. med. nauk; KOSTYGOV, V.V., red.; SKURIKHIN, M.A., MOLCHANOVA, O.P., doktor biol. nauk, prof.; SPERANSKIY, G.N., zasl. deyatel' nauk: , doktor med. nauk, prof.; KISINA, Ye.I., tekhn. red.

[Dairy foods] Molochnaia pishcha. Moskva, Pishchepromizdat, 1962. 419 p. (MIRA 15:10)

1. Glavnyy kulinar Ministerstva torgovli RSFSR (for Kazennova).
2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Speranskiy, Skurikhin). 3. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Molchanova).

(Cookery (Dairy products)) (Dairy products)

ARISTOVSKAYA, T.V.; VLADIMIRSKAYA, M.Ye.; GOLLERBAKH, M.M.; KATANSKAYA, F.A.; KASHKIN, P.N.; KLUPT, S.Ye.; LOZINA-LOZINSKIY, L.K.; NORKINA, S.P.; RUMYANTSEVA, V.M.; SELIHER, G.L., prof.[deceased]; SKALON, I.S.; SKORODUMOVA, A.M.; KHETAGUROVA, F.V.; CHASTUKHIN, V.Ya.; PARSADANOVA, K.G., red.; GARINA, T.D., tekhn. red.

[Comprehensive laboratory manual on microbiology] Bol'shoi praktikum po mikrobiologii. [By] T.V.Aristovskaia i dr. Pod obshchei red. G.L.Selibera. Moskva, Vysshaia shkola, 1962. 490 p. (MIRA 16:3)

(MICROBIOLOGY-LABORATORY MANUALS)

计划和对数据的图式是已经开始的时间的现在分词的现在分词的特别的问题。(2)(2)(2)

SKORODUMOVA, Aleksandra Mikhaylovna, KOROLEVA, N.S., kand. biol. nauk, retsenzent; KULESHOVA, V.D., retsenzent; NOZDRINA, V.A., red.; SOKOLOVA, I.A., tekhn. red.

[Practical manual on the technical microbiology of milk and milk products]Prakticheskoe rukovodstvo po tekhmicheskoi mikrobiologii moloka i molochnykh produktov. 3. izd., perer. i dop. Moskva, Pishchepromizdat, 1963. (MIRA 16:3)

1. Starshiy mikrobiolog Moskovskogo molochnogo zavoda No.1 (for Kuleshova).

(MILK--MICROBIOLOGY)

SKORODUMOVA, A.M.

For hydrolyzing yeast. Mikrobiologiia 34 no.5:912-917
S-0 '65.

(MIRA 18:10)

Everythmens, ..V. "On the mention of whitenest syndrome as the bins of temors of cillular-whitenest ones," Stomaik about, reloc, converted, except the temors of anom-bening my, type, p. 172-79

Co. 8-3 %, this pril 1.00, (Latopis 'Thurnel 'night States, We. 3, 1949)

SKORODUMOVA, A.V.

Problem of the diagnostic significance of pupillary pathology in brain tumors. Vopr.neirokhir. 18 no.1:58-66 Ja-F 54. (MLRA 7:4)

1. Iz Instituta neyrokhirurgii im. akademika N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(Brain--Tumors) (Pupil (Eye)

SKORODUMOVA. I.P.; SEMENOV, L.V.

"Soviet Tuva." P.A. Shakhunova, B.N. Likhanov. Reviewed by I.P.
Skorodumov, L.V. Semenov. Geog.v shkole 19 no.5:75 S-0 '56.

(Tuva Autonomous Province) (Shakhunova, P.A.)

(Likhanov, B.N.)

SKORODUNGVA, I.P.; SELENCY, L.V.

"Production costs in enterprises of the Far Eastern Construction Administration and ways to lower them" by L.A. Gol'dshvend. Reviewed by I.P. Skorodumova, L.V. Semenov. Gor.zhur. no.6:73-78 Je 157.

(1984-10:8)

THE PERSON OF PROPERTY OF THE PROPERTY OF THE PERSON OF TH

(Soviet Far East-Gold mines and mining-Couts)

BAGRIKOV, I.N., inzhener; TISHENKOV, A.M., dotsent; SKORODUMOVA, I.P.

"Economics and organization of power production" by S.A.Prusner,
G.A.Kalinin, S.P.Shershov. Reviewed by I.N.Bagrikov, A.M.Tishenkov,
I.P.Skorodumova. Blek.sta. 28 no.8:94-96 Ag '57. (MIRA 10:10)

(Pruzner, S.A.) (Kalinin, G.A.) (Shershov, S.P.)

(Electric power)

: Osak : General Problems of Pathology, Tumors, Compara-(Company) 12 195**8**, i⁷0. 56494 CATEGORY tive Uncology A33. JOUR. : RZBiol., Mo. : Shorodumova, I.V. : The Innervation of Tumors of the Salivary Glands والمراق المراق المراقب المستوالي المستوالية والمراق المراق e etal ORIG. PUB.: Stomatologiya, 1957, ANO.6, 56-61 : Un the bagis of histologic studies of 47 tumors of the salivary glands in man, the author believes that all tumors both benign and malignant are in-ABBYRACT nervated, but the innervation of tumors differs from the nerve supply of normal tissues, for in connection with the growth of the tumor the latter, as well as the innervation, is in a state of ter, as well as the innervation, is in a season ter, as well as the innervation. The nerve formations in both the tumor itself and the capsule of it participated (if a capsule exists) and in the tissues surrounding the capsule exists and in the tissues surrounding the capsule exists. tation, especially in cases of malignant tumors. The presence of afferent herve fibers testifies 1./2 CARD:

SKORODUMOVA, I.V.

26. And the state of the state

Innervation of a transplanted Brown-Pearce tumor in a rabbit. Biul. eksp. biol. i med. 49 no. 6:84-88 Je '60. (MIRA 13:8)

1. Iz laboratorii eksperimental'noy patomorfologii (zav. - chlen-korrespondent AMN SSSR prof. A.A. Solov'yev) Instituta normal'noy patologicheskoy fiziologii (dir. - deystv. chlen AMN SSSR V.N. Chernigovskiy), AMN SSSR, Moskva. Predstavlena deystv. chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym. (CANCER) (TRANSPLANATATION OF ORGANS, TISSUES, ETC.)

Morphological changes in dysenteric intoxication of animals with different types of the nervous system. Dokl. All USBR 137 no.2:476-479 Mr '61.

MINA 14:2)

MY9 Mr '61.

1. Institut normal'noy i patologi meskoy AMN SSSR. Predstavleno akademikom V.M.Chernicov chin.

(DYSENTERY) (NERVOUS SYSTEM).

SKORODUMOVA, I.V.; AMIANTOVA, L.D.

Morphological changes in experimental diphtherial intoxication in animals with different types of nervous systems. Zhur. mikrobiol. epid. i immun. 40 no.5:143-147 My '63.

1. Iz Institute normal'noy i patologicheskoy fiziologii AMN

1. Iz institutes normatiney i

SKONDERMINA, J.V.

Current data on the innervation of tumors. Trudy Inst.norm.1 pat.fiziol. AMN SSSR 7:82-85 164. (MIRA 18:6)

1. Laboratoriya immunc-patologii serderhno-sosudistoy sistemy (zav. - prof. P.F.Pletsityy) Instituta normal'noy i patologi-cheskoy fiziologii AMI SSSR.

SKORODUMOVA, I.V.

Morrhological changes in anserobic infections in animals with various types of the nervous system. Zhur. mikrobiol., epid. i immun. 41 no.1:130-135 Ja *64. (MIRA 18:2)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR, Moskva.

SKORODUMOVA, I.V.; BEREZHINSKAYA, V.V.

Structural changes in the enterochromaffin system of the small intestine under the effect of rotundin. Biul.eksp.biol.i med. (MIRA 18:2) 58 no.7:113-115 Jl 164.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy (dir. P.T.Kondratenko) Ministerstva zdravookhraneniya SSSR, Moskva. Submitted March 29, 1963.

137-58-6-11328

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6. p 10 (USSR)

AUTHORS: Kislyakov, L.D., Epel'man, L.L., Sinel'shchikova, Ye.N.,

Skorodumova, L.P.

TITLE: Results of Introduction of Selective Flotation of Copper-and-

zinc Ores at the Krasnoural'sk Concentrating Mill (Rezul'taty osvoyeniya selektivnoy flotatsii medno-tsinkovykh rud na Kras-

noural'skoy obogatitel'noy fabrike)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR,

1957, Nr 3, pp 13-20

ABSTRACT: Experiments were conducted with various procedures for the

selective flotation (F) of Cu-Zn ores of the Sibayev deposit, under industrial and pilot-plant conditions. The procedure recommended is one of direct selective F, first of Cu, with fine comminution of the concentrate of the primary flotation, followed by double fining thereof, and then of Zn-FeS₂ flotation with fine grinding of the combined concentrate with subsequent F of Zn therefrom, with four finings. FeS₂ concentrate is also

separated from the tailings of the combined F. The Zn is de-

Card 1/2 pressed during the copper cycle by cyanide and ZnSO₄, while

137-58-6-11328

Results of Introduction (cont.)

 CuSO_4 is used to activate the Zn during the zinc cycle. The collector is butyl xanthate. Hydrocyclones are used for control classification and thickening. Qualitative and equipment diagrams of the F process are presented, as well as tables of F procedures and performance criteria thereof.

L.B.

1. Copper ores--Flotation 2. Zinc ores--Flotation

Card 2/2

LANDO, Moisey Emmanuilovich; SKORODUMOVA, Nina Dmitriyevna; KVASOV, N.V., red.; ALABY SHEVA, N.A., red.izd-va; GVIRTS, V.L., tekhn. red.

[New developments in the promotion of technology in an industrial enterprise] Novoe v tekhnicheskoi propagande na promyshlennom predpriiatii. Leningrad, 1963. 27 p. (MIRA 17:4)

SKORODUMOVA, N.I., inzh.; BRODSKIY, V.S., tekhn.red.

[New methods for preparing and assembling clothing parts] Novye metody obrabotki i sborki detalei odezhdy. Moskva, Biuro tekhn. informatsii legkoi promyshl., 1959. 13 p. (MIRA 13:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet. 2. Byuro tekhnicheskoy informatsii (for Skorodumova).

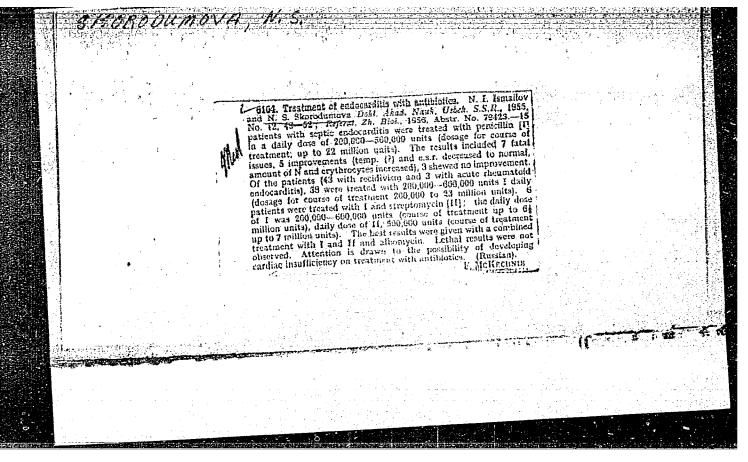
(Clothing industry) (Gluing)

KRONGAUZ, N.N., red.; SKORODUMOVA, N.I., starshiy nauchnyy sotr.; SHIMELIOVICH, Yu.B., red.; POTOPOVA, N.L., tekhn. red.

[Collection of reports of the Scientific Research Conference of Workers of the Clothing Industry of the Ukrainian S.S.R.] Sbornik dokladov Nauchno-tekhnicheskoi konferentsii rabotnikov shveinoi promyshlennosti Ukrainskoi SSR, Kiev, 1959. Moskva, shveinoi promyshlennosti Ukrainskoi SSR, Kiev, 1961. 18 p. TSentr.in-t nauchno-tekhn.informatsii legkoi promyshl., 1961. 18 p. (MIRA 14:12)

1. Nauchno-tekhnicheskaya konferentsiya rabotnikov shveynoy promyshlennosti Ukrainskoy SSR, Kiev, 1959.

(Ukraine--Clothing industry)

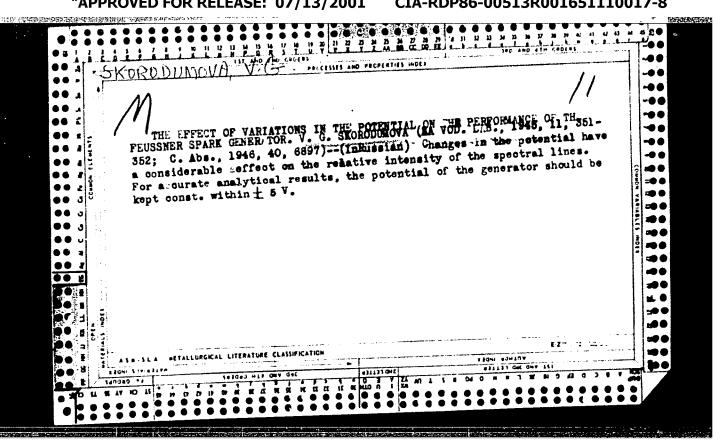


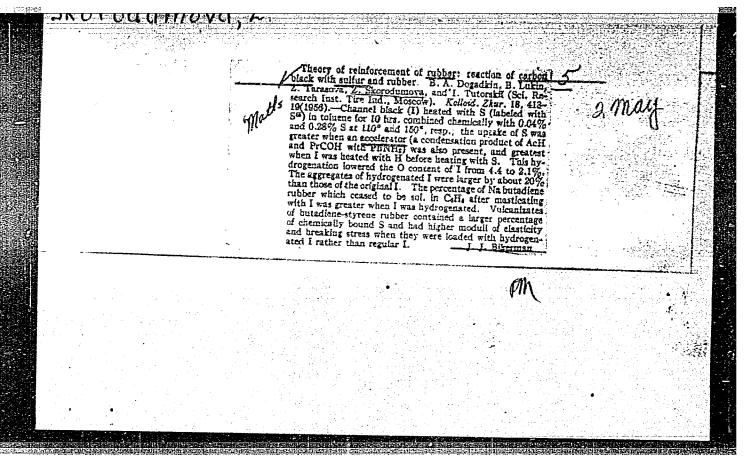
SHVARTSMAN, D.A. SKORODUMCVA, V.A., ZAVLINA, P.S.

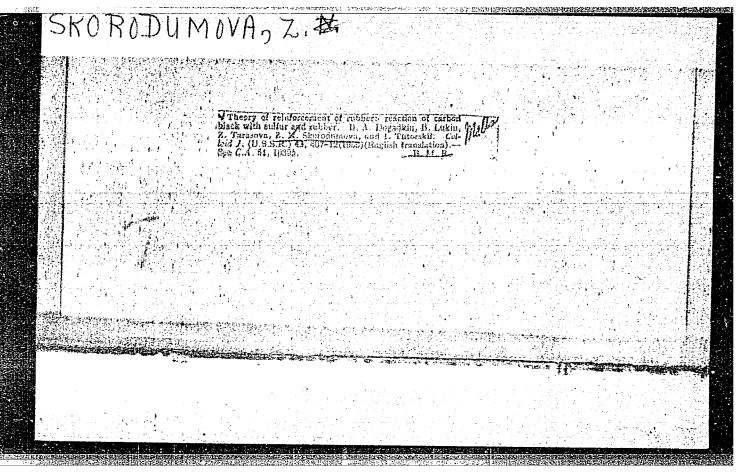
Gorrect analysis of yarm preakage on spinning spindles. Tekst.

(MIRA 15:2)

prom. 21 no.6:4-8 Je (Spinning)







69-20-3-3/24

Dogadkin, B.A.; Skorodumova, Z.V.; Kovaleva, N.V. AUTHORS:

TITLE: On the Chemical Interaction of Sulfur and Carbon Black (O

khimicheskom vzaimodeystvii sery s sazhey)

Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 272-278 (USSR) PERIODICAL:

ABSTRACT: The chemical interaction of sulfur and black is of great

importance in the vulcanization of rubber. The quantity of chemically bound sulfur, when heated with black in a hydrocarbon medium, is the greater the less the oxygen content in the black. The removal of oxygen from the surface of the black by means of hydrogenization, etc increases the chemical absorption of the sulfur on the surface of the black. Heating of the black at temperatures higher than 900°C in a vacuum or hydrogen atmosphere leads to a decrease of the chemical absorption of sulfur on the surface of the This is due to the connection of the sulfur with the free valences of the end carbon atoms. An isotopic exchange of the bound sulfur with ${\tt S}^{35}$ is not possible. It is assumed therefore that the sulfur on the surface of the black forms

resistant monosulfide groups. In view of these facts it is Card 1/2 supposed that the sulfur joins the carbon black mainly at

On the Chemical Interaction of Sulfur and Carbon Black 69-20-3-3/24

the active sites of the carbon surface.

There are 5 tables, 7 graphs, and 7 references, 5 of which

THE REPORT OF THE PROPERTY OF

are Soviet, 1 English, and 1 German.

ASSOCIATION: Nauchno issledovatel'skiy institut shinnoy promyshlennosti,

Moskva (Scientific Research Institute of the Tire Industry,

Moscow)

SUBMITTED: February 20, 1958

Card 2/2 1. Carbon black-Chemical reactions 2. Sulfur-Applications

S/069/60/022/006/001/005 B013/B066

AUTHORS:

Dogadkin, B. A., Skorodumova, Z. V., and Fel'dshteyn, M. S.

TITLE:

Effect of the Chemical Nature of the Surface of Carbon Black

on Its Interaction With Rubber and Sulfur, and on the

Vulcanization Kinetics

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol. 22, No. 6, pp. 663-670

TEXT: The purpose of the present paper was to study the interaction of carbon black with rubber and the dependence of this reaction on the nature of the carbon-black surface. The interaction in the systems rubber - carbon black and rubber - carbon black - sulfur was studied in butadiene-styrene rubber CKC-30A(SKS-30A). The vulcanization temperature was 143°C. The sorption of rubber from n-heptane solutions (Fig. 1) indicated that the commercial blacks drop in the following order according to the quantity of rubber sorbed per unit surface: Lampblack > thermal black > furnace black > channel black. The type "Feelblack O" corresponds to channel black. The rubber quantity sorbed per surface unit

Card 1/3

Effect of the Chemical Nature of the Surface of Carbon Black on Its Interaction With Rubber and Sulfur, and on the Vulcanization Kinetics

S/069/60/022/006/001/008 B013/B066

is the higher, the less oxygen-containing functional groups occur on the black surface. The interaction of rubber with carbon black permitted the establishment of a similar relationship at vulcanization temperature. It was shown that the sulfur chemically bound on the black surface forms additional active centers, and participates in the formation of cross links. Since the opinions on the character of the interaction of carbon black with rubber diverge, this problem requires further thorough investigation. The effect of the oxidation of carbon black on the vulcanization kinetics was tested on the type "Feelblack O" which is used to a considerably extent in the tire industry. It was oxidized for 1.5 hours at 400°C in the air. The oxygen content in the carbon black increased and the low pH was indicative of an increased content of carboxyl and phenol groups. It was found that the increased number of oxygen-containing functional groups on the surface of carbon black reduce the vulcanization rate, and the moduli, the content of bound sulfur, and increase the maximum of swelling. This effect of oxygen-containing functional groups was also confirmed by the data obtained for sulfur by heating the system rubber - carbon black - sulfur with contents of lampblack, channel black,

Card 2/3

Effect of the Chemical Nature of the Surface of Carbon Black on Its Interaction With Rubber \$/069/60/022/006/001/005 and Sulfur, and on the Vulcanization Kinetics B013/B066

"Feelblack O", and furnace black (Fig. 6). Samples of channel black which had been subjected to heat treatment were made available by B. V. Lukin and K. A. Pechkovskaya. There are 6 figures, 4 tables, and 12 references: 8 Soviet, 7 US, 1 British, and 2 Australian.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti. Moskva (Scientific Research Institute of the Tire Industry,

Moscow)

SUBMITTED: June 6, 1960

Card 3/3

S/069/61/023/006/002/005 B119/B101

AUTHORS: Dogadkin, B. A., Felidshteyn, M. S. Skorodumova, Z. V.

TITLE: Effect of carbon black on the vulcanization kinetics and the

character of the sulfur structure of the vulcanizates

PERIODICAL: Kolloidnyy zhurnal, v. 23, no. 6, 1961, 679 - 683

TEXT: Standard type vulcanizates from CK(.30Å (SKS-30Å) butadiene styrene rubber without filler, and those filled with 50 parts by weight of channel black, furnace black, lamp black, or carbon black of the type fill-black "O", were investigated for their content of bound or replaceable (polysulfide) sulfur. The vulcanizates were also investigated for their capability of swelling. The content of replaceable sulfur was determined by means of radioactive sulfur according Z. N. Tarasova, M. Ya. Kaplunov, M. A. Vas'kovskaya, B. A. Dogadkin (Sb "Vulkanizatsiya rezinovykh izdelíy" (Vulcanization of rubber products), Yaroslavskiy sovnarkhoz, 1960). The effect of the chemical structure of the carbon-black surface on the type of sulfur bond was determined by comparing the effect of untreated channel black (composition: 93.04% C, 1.25% H. 5.71% O. pH 3.47) with that of thermally treated one (at 500°C and Card 1/3

S/069/61/023/006/002/005 B119/B10:

Effect of carbon black on ...

225 kg/cm² in hydrogen medium; composition: 94.65% C, 1.39% H, 3.96% O, pH 7.2). The possible effect of accelerators (N-cyclohexyl-2-benzothiazole sulfenamide, 2-mercapto benzothiazole, diphenyl guanidine) on the sulfur bond in the presence of the carbon-black types mentioned was investigated with vulcanizates from CKC+3AM (SKS-3AM) butadiene styrene rubber. Results: The content of polysulfide bonds decreases in the orders unfilled vulcanizate (NO.6% after 100 min vulcanization), lamp black, fill-black "O", furnace black, channel black (~0.2% after 100 min vulcanization). Cross linking is strongest in vulcanizates containing fill-black "O", weakest in those without filler. With decreasing content of oxygen-containing groups on the carbon black surface, the rate of cross linking and the content of bound sulfur increase, while the capability of swelling decreases. The rate of vulcanization and the degree of cross linking (capability of swelling after 100 min vulcanization; without filler: ~ 400% related to the initial volume of rubber, filled: പ്280 310%) are higher for vulcanizates with filler than for those without. The effect of fillers is not affected by the accelerator. Vulcanizates with channel black contain least polysulfide sulfur, but are cross-linked in a high degree (low capability of swelling). The

Card 2/3

SKORODUMOVA, Z.V.; FEL'DSHTEYN, M.S.

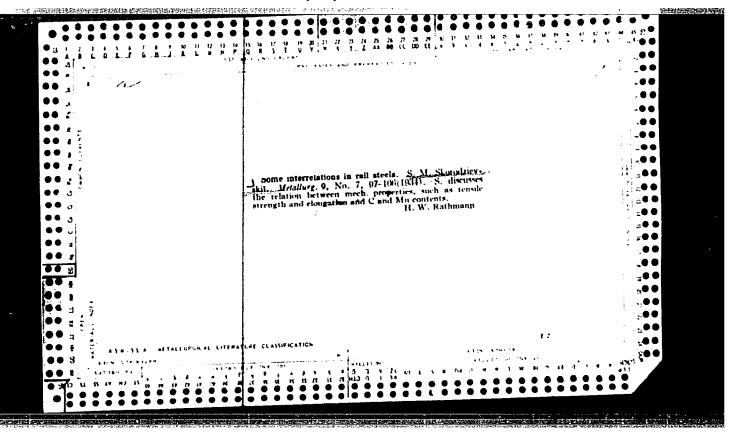
Molecular sieves and their use in the production of rubber goods. Kauch. i rez. 22 no.9:41-46 S '63. (MIRA 16:11)

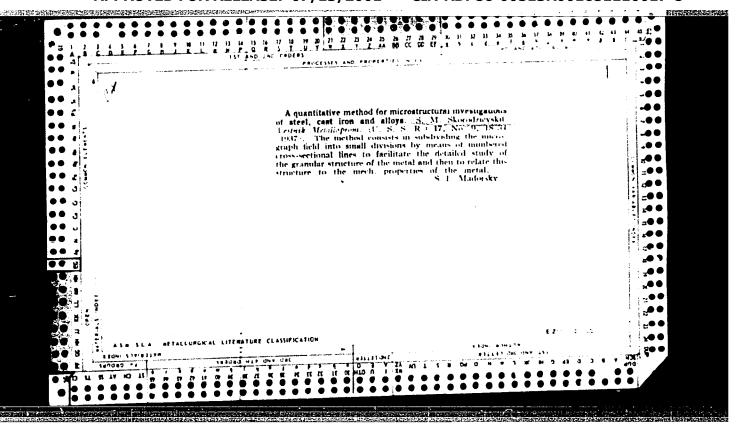
1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

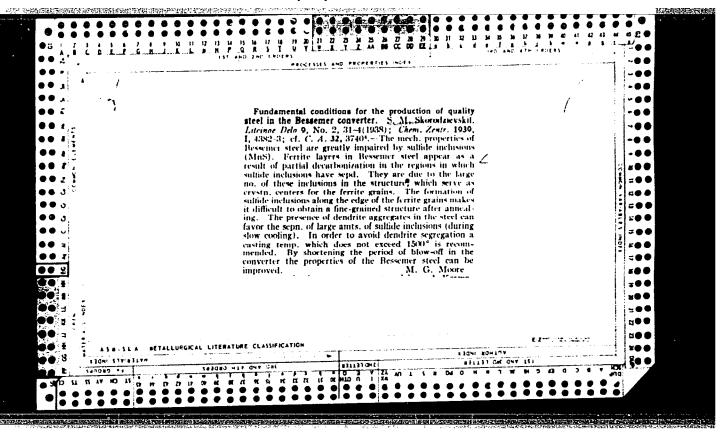
##	
L 41265-66 EWT(m)/EWP(i) IJP(c) JWD/RM ACC NR: AP6022445 (A) SOURCE CODE: UR/0069/66/028/002/0214/0217	•
AUTHOR: Dogadkin, B. A.; Skorodumova, Z. V.; Fel'dshteyn, M. S.	
ORG: Scientific-Research Institute of the Tire Industry, Moscow (Nauchno-issledovatel'skiy institut shinnoy promyshlennosti)	
TITLE: The influence of carbon black on the interaction of rubber with sulphur and	
gecelerators	
SOURCE: Kolloidnyy zhurnal, v. 28, no. 2, 1966, 214-217	
TOPIC TAGS: butadiene styrene rubber, dehydrogenation, vulcanization, carbon black	
ABSTRACT: Two series of experiments were carried out to define the influence of alkaline carbon blacks in accelerating the attachment of sulphur and improving its maximal combined content, improving the modulus, and lowering peak value of swelling. The first concerned content, improving the modulus, and lowering peak value of swelling. The first concerned reflects of channel black and Philback 0 on dehydrogenation in the butadiene styrene rubber system SKS-30A (100 parts by weight) plus 7 parts di-2benzthiazyldisulfide plus 50 parts carbon black. The second series utilized the same system with an addition of 3 parts sulphur. Dehydrogenation and interaction of rubber and sulphur are both activated by the presence of Philback 0. Channel black promotes attachment of accelerator radicals to molecular chains	
Card 1/2 UDC: 541.182:546.22	_

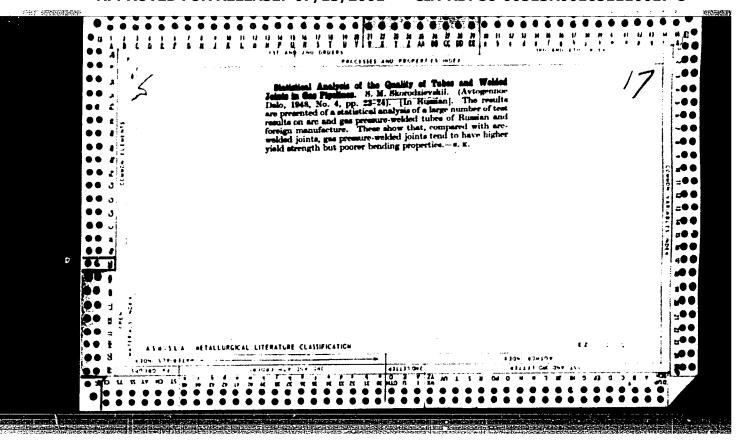
中的研究的特殊的

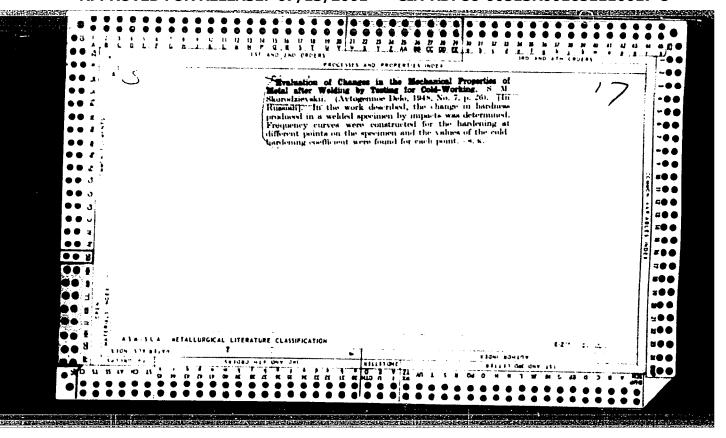
ACC NR: AP6022445		
	other named reactions. Experimental results ser ion kinetics induced by the presence of various ty figures.	ved to pes of
SUB CODE: 07,11/ SUBM DATE	:: 03May65/ ORIG REF: 007	
•		
	•	
		-

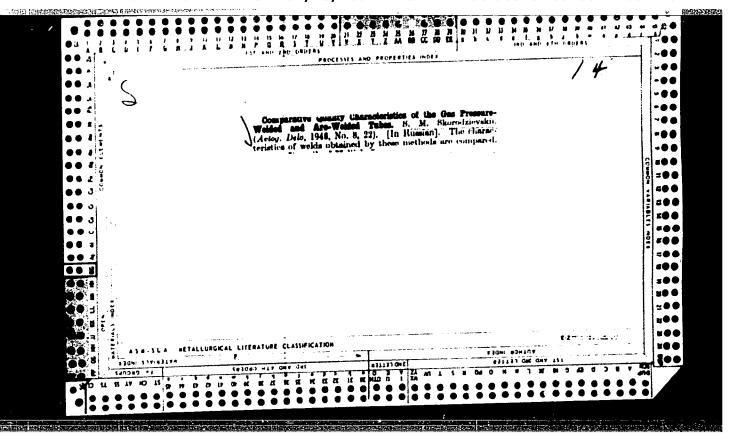


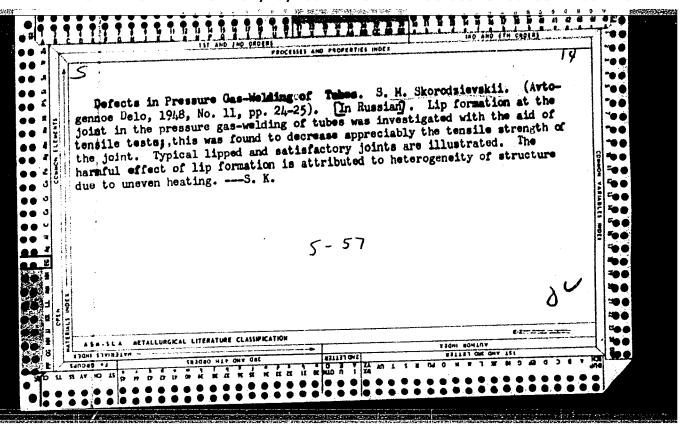


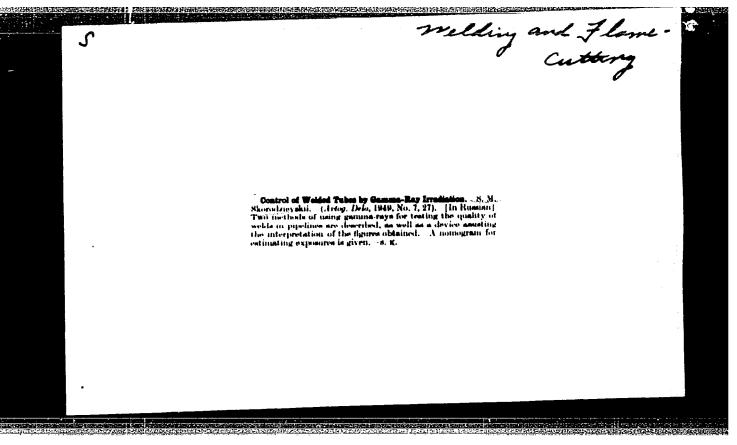












SKORODZIYEVSKIY, S. M.

USSR/Engineering - Welding, Testing

Ôct 51

"Bending Test in Gas Pressure Welding," S. M. Skorodziyevskiy, Engr

"Avtogen Delo" No 10, pp 22, 23

Questions expediency of bending test for pipelines welded by gas-pressure method. Editors do not agree entirely with author's reasoning and suggest open discussion on methods for production tests of welded joints and, particularly, on permissible limits for applicability of bend testing.

202T43

是一种是一种。 第一种,是一种,是一种,是一种,是一种,是一种,是一种,是一种,是一种,是一种,是	*
SKORODZIYEVSKIY, S. M.	
Founding	
Practice of $n_{\rm P}$ liention of statistical method of control in the founding industry. Lit. project 2 No. 8, 1752.	
Monthly List of Russian Accessions, Library of Congress, December 1952 UNCLASSIFIED	

SKORODZIYEVSKIY, S. M.

USSR/Metallurgy - Cast Iron, Castings, Defects

Jul 52

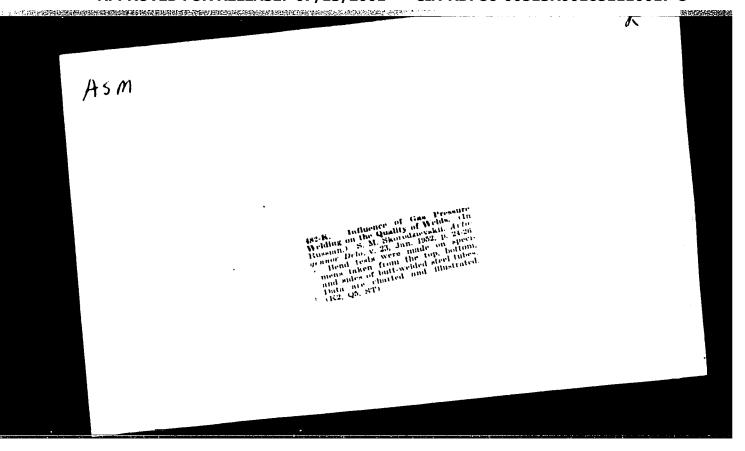
PA 233T64

"Centrifugal Casting of the Cylinder Liners for Tractor Engines," S.M. Skorodziyevskiy, Engr

"Litey Proizvod" No 7, pp 30, 31

Investigates causes for slag nodules, resulting in gas cavities revealed in upper part of liners after machining. Establishes that one of basic factors affecting formation of slag inclusions is pouring temp, which, when raised above 1,300°, reduces the number of reject castings. Discusses also effect of centrifugal forces on nonuniformity of cast-iron chem compn.

233164



SKORODZIEVSKIY, S. M.

Quality Control

Practice of using the statistical method of analysis and control in the thermal shop. Avt. trakt. prom. No. 2, 1953.

Monthly List of Mussian Accessions, Library of Congress, June 1953. Uncl.

中国的自然的,这种自然的现在分词,但是是一种的一种,但是是一种的一种的一种的,但是是一种的一种的一种的一种,但是是一种的一种,但是是一种的一种,但是是一种的一种

SKORODZIYEVSKIY, S.M.

Producing vessels by liquid stamping. Lit.proizv. no.9:25-26

(MLRA 8:2)

D154.

(Forging machinery)

28-6-11/40

AUTHOR: Skorodziyevskiy, S.M., Engineer

TITLE: Utilization of Machine-counting Stations for Statistical Analysis (Ispol'zovaniye mashinno-schetnykh stantsiy dlya

statisticheskogo analiza)

PERIODICAL: Standartizatsiya, 1957, # 6, pp 40 - 42 (USSR)

ABSTRACT: General information is given on work methods of industrial "machine-counting stations", and several practical examples

proving their usefulness are cited.

The statistical method of data processing has been introduced at the Novo-Kramatorskiy Plant imeni Stalin for production of supporting rollers of rolling mills. The statistical card used for this registration is shown. One worker processes

up to 3,000 punched cards per shift.

Under-surface cracks located across the axis in forgings, for a long time caused rejects of many large rollers before the new statistical analysis method was introduced. The data for this analysis were taken from the workshop documents for 274 rollers rolled from 47-tons to 103-tons castings at the plant "Zaporozhstal:" during 1952-1956. The analysis revealed

Card 1/2

a direct dependence of the cracks on the carbon content in

CIA-RDP86-00513R001651110017-8"

APPROVED FOR RELEASE: 07/13/2001

Utilization of Machine-counting Stations for Statistical Analysis 28-6-11/40

steel. The steel grade was then changed and rejects because of cracks were reduced to 0.5%. The analysis of effect of the forging technology on the quality of supporting rollers revealed that long heating of steel $9X\Phi$ in a temperature range of 1220-1250°C results in an abrupt decrease of plastic properties at the metal temperature below 950°C, and that 1220°C is the optimum temperature for the oven and 1220°C the optimum for the metal. The "Zaporozhstal'" data demonstrated that too deep regrinding of rollers had caused (during 1952-1956) a loss equal to 2 million rubles.

The Kiyev plant "Bol'shevik" has been practising the statistical analysis method for two years.

The corrosion resistance of cast iron "CYML-A" was investigated in this way and it was found that silicon content has a great effect on this property. The former silicon content of 2-2.4% was reduced to 1.6 - 1.8%, which increased the corrosion resistance of this cast iron by 30%.

There are 2 diagrams.

AVAILABLE: Library of Congress

1. Industry-USSR 2. Rolling mills-Statistical analysis Card 2/2

NESTRONOMINATED DE LA COMPANION DE LA COMP

MYLKO, S.N., kand.tekhn.nauk; SKORODZIYEVSKIY, S.M., inzh.

Semicontinuous pouring of cast iron pipe and cylindrical ingots.

Met. i gornorud. prom. no.2:39-41 Mr-Ap '62. (MIRA 15:11)

Met. i gornorud. prom. no.2:39-41 Mr-Ap '62. (Continuous casting) (Pipe, Cast iron)

SKORODZIYEVSKIY, S. M., inzh.

Active automatic control equipment. Mashinostroenie no.5: 74-80 S-0'62. (MIRA 16:1)

1. Proyektno-konstruktorskiy tekhnologicheskiy institut Kiyevskogo soveta narodnogo khozyaystva.

(Automatic control—Equipment and supplies)

s/138/63/000/002/006/007 A051/A126

AUTHOR:

Skorodziyevskiy, S.M.

TITLE:

Statistical investigation of shrinkage of molded rubber articles

PERIODICAL: Kauchuk i rezina, no. 2, 1963, 28 - 31

Statistical methods for determining the shrinkage of molded rubber articles are considered the only means to get accurate results. The investigation using these methods considers shape and dimensions of the articles, location of grooves in the press form, rubber composition and physico-mechanical properties. Temperature shrinkage is given preference in the general factors determining the shrinkage. It is calculated from the coefficient of volumetric and linear rubber expansion. The coefficient of linear expansion is calculated from: $\beta_p = x \beta_k$ (1), where β_k is the coefficient of linear expansion of natural rubber (NR); x - relative volumetric quantity of NR, sulfur and other ingredients of the rubber mix of an organic nature. Temperature shrinkage is calculated from: $C = (\alpha - \beta) \Delta T \cdot 100$ (2), where β is the coefficient of linear expansion of the rubber, & - the coefficient of linear expansion of

Card 1/2

S/138/63/000/002/006/007 A051/A126 •

Statistical investigation of shrinkage of

metal, ΔT - temperature drop. The complete shrinkage was calculated from $C = \frac{A_{article} - A_{press}}{A_{press}} \cdot 100\%$, (3)

where Aarticle is the dimension under control of the rubber article at room temperature; Apress - the size of the groove of the press form at room temperature. The latter two values are estimated as the arithmetic mean from several distributions of size values of the grooves of press-form and articles. The effect of ring size on the shrinkage of compression rings was studied and the relation of the shrinkage to the internal and external ring diameter established. A determination of the relation between ring shrinkage and that of the cross-section diameter and the internal and external diameters revealed the presence of a probable relation between the shrinkage change and the dimension ratio:

dcross-section/Nint. and dcross-section/Next. Experiments at the HUMPH (NIIRP) further revealed that the groove distribution in the press form affects the extent of the article shrinkage. There are 7 figures and 4 tables.

ASSOCIATION: Proyektno-konstruktorsko-tekhnologicheskiy institut, g. Kiyev (Institute of Design and Construction Technology, Kiyev)

Card 2/2

SKORODZIYEVSKIY, S.M., inzh.

Device for active control and regulation of operating conditions of galvanic cells. Mashinostroenie no.3:74-76 My-Je '63. (MIRA 16:7)

l. Proyektno-konstruktorskiy tekhnologicheskiy institut
Kiyevskogo soveta narodnogo khozyaystva.
(Electroplating)
(Electronic control)

THE THE PROPERTY OF THE PROPER

SKOROGORENAC, M.G.

Intratesticular method of immunization. Zhur. mikrobiol., epid. i immun. 40 no.3:79-82 Mr 163. (MIRA 17:2)

l. Iz Odesskogo instituta epidemiologii i mikrobiologii imeni Mechnikova.

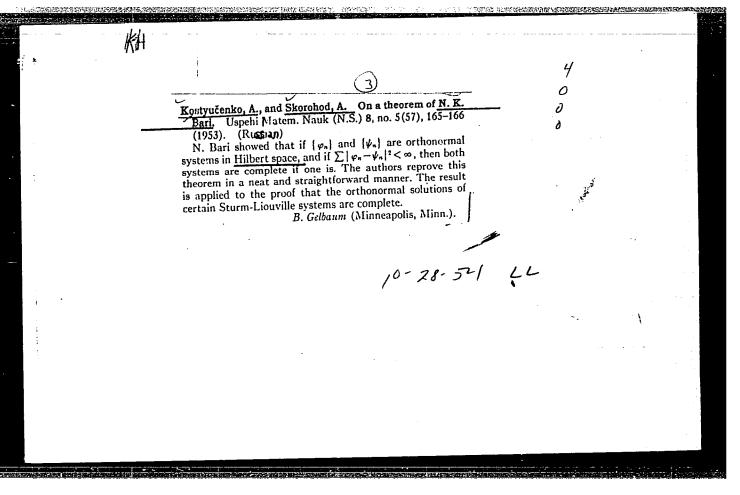
APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001651110017-8"

RADKEVICH, F. YE., KUTIKOV, V. V., FU DOTTOVA, V. A., SKCROKHATOVA, K. I.

Foxes - Diseases

Treating gastrointestinal diseases of young foxes and minks. Kar. i zver. 5 No. 4, 1952.

9. MATHIY HIST OF RUSSIAN ACCESSIONS, Library of Congress, December 1952. Uncl.



SKOROKHOd, A.V.

USSR/Mathematics - Distribution laws

Card 1/1 Pub. 22 - 9/47

Authors : Skorokhod, A. V.

Title : Asymptotic formulas for rigid distribution laws

Periodical : Dok. AN SSSR 98/5, 731-734, Oct 11, 1954

-manufaction designation of

Abstract : Asymptotic formulas, for rigid distribution laws, are presented in the form of a thesis. The characteristic function which determines the canonical law into which any rigid distribution law governing the transformation of an independent variable can be reduced is described. The practical application

of such asymptotic formulas is explained. Six references: 3-USSR; 2-USA

and 1-German (1941-1954). Table.

Institution: The M. V. Lomonosov State University, Moscow

Presented by: Academician A. N. Kolmogorov, July 1, 1954

SKOROKHOD, A.V., student V kursa.

Markov processes in normal spaces. Stud.nauk.pratsi no.16:151-157
'55.

(Chains (Mathematics))

SKOROKHOD, A.V., student V kursa.

Analytic properties of stable distributions of probabilities. Stud.

Analytic properties of stable distributions of probabilities. Stud.

(MLRA 10:2)

(Probabilities)

SKOROKHOD, A.V.

Limit transition from a sequence of sums of independent random variables to a uniform stochastic process with independent increments. Dekl. AN SSSR 104 no.3:364-367 S 155. (MLRA 9:2)

1.Moskevskiy gosudarstvennyy universitet imeni M.V.Lemoneseva. Predstavlene akademikem A.M.Kelmegerevym. (Prebabilities)

SKOROKHOD, A.V

Name : SKOROKHOD, A. V.

Dissertation : Limit theorems for random processes

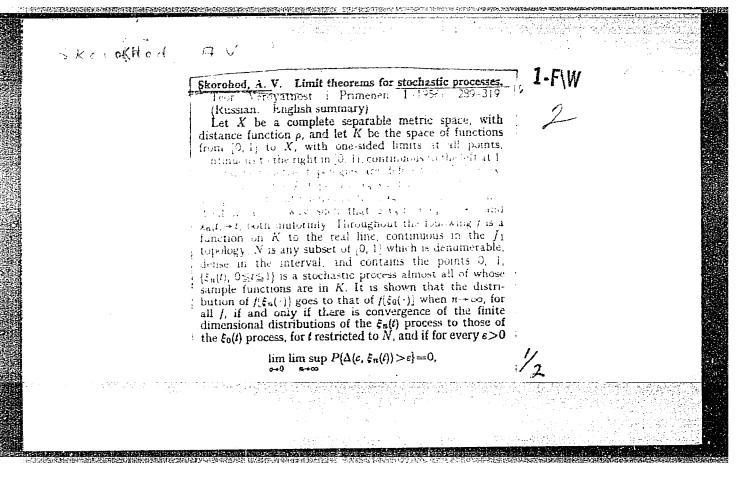
Degree : Cand Phys-Math Sci

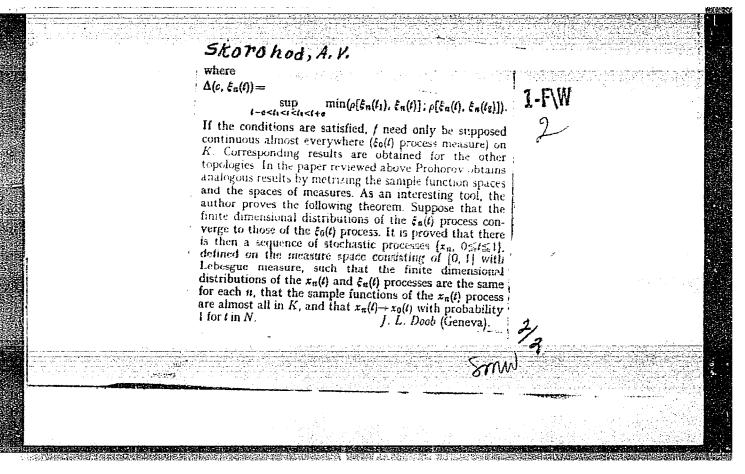
Defended At : Moscow State U imeni M. V. Lomonosov,

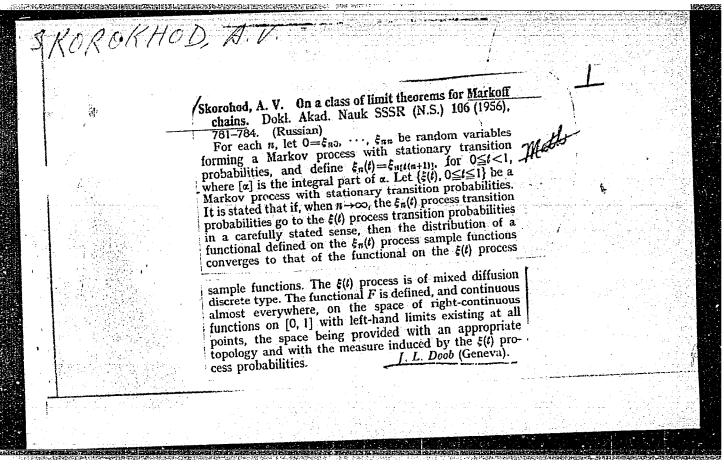
Mechanicomathematical Faculty

Publication Date, Place : 1956, Moscow

Source : Knizhnaya Letopis' No 6, 1957







SKOROKHOD, A.V. (Moskva).

Limit theorems for stochastic processes with independent increments
[with summary in English]. Teor. veroiat. i ee prim. 2 no.2:145-177
[W.ERA 10:11)

157.

(Limit theorems (Probability theory))

SOV/52-2-4-2/7

(Kiyev) Skorokhod, A. V. AUTHOR:

On the Differentiability of Measures which Correspond to TITIE:

Stochastic Processes. 1. Processes with Independent Increments. (O differentsiruyemosti mer, sootvetstvu-

yushchikh sluchaynym protsessam. 1. Protsessy s

nezavisimymi prirashcheniyami.)

PERIODICAL: Teoriya Veroyatnostey i yeye Primeneniya, 1957, Vol.II, Nr.4, pp.417-443. (USSR)

ABSTRACT: If on a Borel body $\mathcal B$ of sets from some space X two measures μ_1 and μ_2 are given, then it is said that

the measure μ_2 is absolutely continuous with respect to the measure μ_1 if for every set A (B) for which

The well-known Radon-Nikodim $\mu_{\gamma}(A) = 0, \quad \mu_{\gamma}(A) = 0.$

theorem (see Ref.1) asserts that for every measure μ_2

which is absolutely continuous with respect to the measure

there exists a measurable function p(x) over 3

such that

(Eq.1) $\mu_2(\Lambda) = \int p(x)\mu_1(dx).$

Card 1/4

SOV/52-2-4-2/7

THE PROPERTY OF THE PROPERTY O

On the Differentiability of Measures which Correspond to Stochastic Processes, 1.

> If for the measure μ_2 Eq.1 is true, then it is further said that the measure μ_2 is differentiable with respect to the measure $\;\mu_{1}\;$ and we write

$$p(\mathbf{x}) = \frac{d\mu_2}{d\mu_1} \quad (\mathbf{x}), \tag{Eq.2}$$

and the function p(x) is called the derivative of the measure μ_2 with respect to the measure μ_1 , or the density of the measure μ_2 with respect to the measure To each random process (t) there corresponds by Kolmogorov's theorem (Ref.2) a measure defined on a minimal Borel body γ of all cylindrical sets of the space of all functions. This paper is devoted to the investigation of the conditions under which for two given Card 2/4 processes $\xi_1(t)$ and $\xi_2(t)$ the measure $\mu_{\xi_2}(t)$

SOV/52-2-4-2/7

On the Differentiability of Measures which Correspond to Stochastic Processes. 1.

absolutely continuous with respect to 4,1(t)

density of the measure $\mu_{\xi_2}(t)$ with respect to

Detailed investigation for certain particular cases is contained in Ref.3. A unique general result, previously known to the author, is that the measure corresponding to the diffusion process with diffusion coefficient equal to unity and the transport coefficient $\gamma(x, t)$ with certain assumptions about the smoothness of $\gamma(x, t)$ is absolutely continuous with respect to the measure corresponding to the Weiner process. Proof of this can be found in Ref.4. The present paper consists of two parts. In the first part the necessary and sufficient conditions are found for the absolute with respect to $\mu_{\xi_1}(t)$, continuity of $\mu_{\xi_2}(t)$

Card 3/4

SUV/52-2-4-2/7

On the Differentiability of Measures which Correspond to Stochastic Processes. 1.

is calculated for the case when $\xi_1(t)$ and $\xi_2(t)$ are continuous stochastic processes with independent increments. In the second part, to be published, these same questions will be considered for Markov processes. The author considers processes defined for $t \in [0,1]$ and taking values from an m-dimensional Euclidian space $R^{(m)}$. There are 6 Soviet references.

SUBMITTED: April 14, 1957.

Card 4/4 1. Topology 2. Mathematics

TO A STATE OF THE STATE OF THE

22591

16,6100

\$/044/60/000/010/015/021 C111/C333

AUTHOR:

Skorokhod, A.V.

TITLES

Some remarks on random measures

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 10, 1960, 131, abstract 11878. (Visnyk Kyivs'k.un-tu, 1958, No.1, Ser.

astron., matem.ta meknan., vyp.I, 105-114)

TEXT 8 Let X be a certain set and S-- O-algebra of subsets from X. On X there is given a random measure $(r.m.)\mu$, if for every $A \in S$ the random variable $\mu(A)$ is defined so that for an arbitrary sequence

of pairwise disjoint sets $A_k \in S$ the series $\sum_{k=1}^{\infty} \mu(A_k)$ converges to $\mu(\bigcup_{k=1}^{n}A_{k})$ in probability. If X is a metric space and if the measure of an arbitrary one-point set is equal to zero, then the r.m. μ is called regular. The r.m. p. is called normal, if the joint distribution of $\mu(A_1)$, $\mu(A_2)$,..., $\mu(A_k)$ is normal for arbitrary A_1, A_2, \dots, A_k . Every normal measure is completely determined by presupposition of two set functions $m(\mathbf{A})=\mathbf{M}/\kappa(\mathbf{A})$ and $\mathbf{Z}^2(\mathbf{A})=\mathbf{M}/\kappa^2(\mathbf{A})$. The r.m. μ is called Markovian, if for an arbitrary monotonely increasing sequence of sets Card 1/3

Some remarks on random measures

22591 S/044/60/000/010/015/021 C111/C333



 C_i the variables $\mathcal{M}(C_i)$ form a Markov chain. The author considers examples of Markov measures which are of interest in mathematical statistics. It is proved: To every regular normal Markov measure with $\mathcal{M}(A)=0$ on S there exists a numerical measure $\mathcal{N}(A)$ and constants a and b such that $\mathcal{O}(A)=a \mathcal{N}(A)+b \mathcal{N}(A)$. Relative to Markov measures which attain integer nonnegative values, the following generalization of the Poisson law is proved: if there exists a numerical measure $\mathcal{M}(A)$ such that $\mathcal{M}(X)=1$ and

$$\lim_{m(A)\to 0} P \left\{ \mu(A) = 1 \right\} / m(A) = 1$$

$$\lim_{m(A)\to 0} P \left\{ \mu(A) > 1 \right\} / m(A) = 0,$$

then there exists a function $\varphi(z)$ continuous for $|z| \le 1$ and analytic for $|z| \le 1$ such that for arbitrary pairwise disjoint sets $\mathbb{A}_1, \mathbb{A}_2, \dots, \mathbb{A}_r$ it holds:

$$P\left\{\mu(\mathbf{A}_1)=\mathbf{k}_1, \mu(\mathbf{A}_2)=\mathbf{k}_2, \dots, \mu(\mathbf{A}_r)=\mathbf{k}_r\right\} =$$

Card 2/3

Some remarks on random measures

22591 \$/044/60/000/010/015/021 C111/C333

$$= \frac{m^{k_1}(A_1)}{k_1!} \frac{m^{k_2}(A_2)}{k_2!} \cdots \frac{m^{k_r}(A_r)}{k_r!} \varphi^{(k_1+k_2+\cdots+k_r)} \left(1-m(\underbrace{i=1}^r A_i)\right),$$

where $\psi^{(k)}(z)$ is the k-th derivative of $\psi(z)$. Finally the author gives some unsolved problems in the theory of the Markov r.m. (description of the class of all Markov measures, description of all Markov processes which are distribution functions of a Markov measure on the real line; asymptotic theorems for Markov measures etc.). [Abstracter's notes Complete translation.]

Card 3/3

AUTHOR: Skorokhod, A. V.

Limit Theorem for Markov Processes (Predelinyye teoremy dlya TITLE: protsessov Markova)

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1958, Vol 3, Nr 3, pp 217-264 (USSR)

ABSTRACT: General theorems can be applied to obtain the results for Markov processes (Refs.1 to 8). In this work a case of Markov processes with no secondary discontinuity is considered. It is shown that the convergence of initial distributions and infinitesimal operators of processes is entailed with the convergence of the J_1 -distribution (J_1 - continuous functionals). The following assumptions are necessary: 1) If X represents a space with \mathcal{C} as a σ -algebra of X, and T is a set of numbers on a straight line, then the function $P(t, x, \tau, A)$, defined for all $x\in X$, $t<\tau$; t, $t\in T$, $A\in \mathcal{C}$ is called a transition Markov function (Eq.1.1). 2) A process $\xi(t)$ defined for ter will be - Markov process if the probability function (1.2) can be defined for $t_1 < t_2 < \dots < t_k$. It is said that $P(t, x, \tau, A)$ is a transition Markov function of the process $\xi(t)$

3) The Markov process is a regular stochastic process (i.e. Card 1/9

Limit Theorem for Markov Processes

condition PP) if the Markov transition function: $P(t,x,\tau,A)$ satisfies the conditions (1.6), (1.7), (1.8) for $\varepsilon > 0$.

satisfies the conditions (1.6), (1.7), (1.8) for $\varepsilon > 0$.

4) The Markov process is a continuous stochastic process
4) The Markov process is a continuous stochastic process
4) The Markov process is a continuous stochastic process
4) The Markov process $P(t,x,\tau,A)$ (i.e. condition PH) if its transition function $P(t,x,\tau,A)$ (i.e. condition PH) if its transiti

Card 2/9

301/52-3-3-1/8

Limit Theorem for Markov Processes

neorem for markov processes
$$\alpha = \sup_{\mathbf{x} \in X} P_{\mathbf{k}}(\mathbf{x}, \mathbf{v}_{\underline{\varepsilon}}(\mathbf{X})); \quad \beta = \sup_{\mathbf{x} \in X} \min[\sup_{\mathbf{x} \in X} P_{\mathbf{i}, \mathbf{j}}]$$

$$k=1,2,..,m-1$$

$$(x, V_{\underline{\varepsilon}}(X)); \sup_{x \in X} P_{k,1}(x, V_{\underline{\varepsilon}}(x))]$$
, then for $\beta < \frac{1}{4}$

the Eq.(1.14) will be satisfied for $\alpha \leqslant \frac{1}{4}$.

10) If the process $\xi(t)$ satisfies the condition PP and that

$$\Delta_{J_1}^{P}\!\!\left(\overline{c},\;\xi(t),\!\frac{\varepsilon}{20}\right)\!\!\leqslant\!\!\frac{1}{3}\;\;,\;\;\Delta_{J_1}^{P}\!\!\left(c(\delta),\;\xi(t),\;\frac{\varepsilon}{12}\right)=\delta\!\!\leqslant\!\!\frac{1}{4}$$

for \overline{c} and $c(\delta)$ respectively, and

$$\Delta_{J_1}^P$$
 $\stackrel{(2)}{\downarrow}$, ξ (t), $\frac{\epsilon}{12}$ $\stackrel{(2)}{\downarrow}$ for the integer ℓ , then the

probability function (1.15) will be true for $\ \mathbf{t_1}\!<\!\mathbf{t_2}\!<\!\ldots\!<\!\mathbf{t_n}$. It was shown that some selected functions of a process with Card 3/9

Limit Theorem for Markov Processes

probability 1 have no secondary discontinuity (Refs.16,17). This can be applied also in the case of the processes satisfying the condition PP. It can be stated that if a Markov process satisfies the condition PP then such a process $\xi'(t)$ exists which belongs to K, with the probability 1 (Theorem 2.3). Therefore, if a transition Markov function P(t,x,\tau,A) belongs to K, with the probability P(t,X,b,V $_{\epsilon}/2$ (x)) < t< b. If it is possible to define the conditions for the distribution $f(\xi_n(t))$ to converge with the distribution $f(\xi_n(t))$ for any J_1 . These conditions can be expressed as follows: if the processes $\xi_n(t)$, $n=0,1,2,\ldots$ satisfy PP, and their distributions converge with the process $\xi_0(t)$ so that the limit (3.1) takes place for all $\epsilon>0$, then the probability of the distributions $f(\xi_n(t))$ and $f(\xi_0(t))$ to

Card 4/9

307/52-3-3-1/8

Limit Theorem for Markov Processes

converge is small (Theorem 3.1). The same can be stated in the case of the process $\xi_n(t)$ satisfying the condition PP and the process $\xi_0(t)$ satisfying the condition PH (Theorem 3.2), as it is possible to apply the conception of 1/2-group in order to formulate the limiting theorems for the Markov process. (The set of limited operators $U_{\mathbf{t}}$; $\mathbf{t} > 0$, represents a 1/2-group for $U_{t+\tau} = U_{t}U_{t}$). Thus, if the sequence of the continuous 1/2-groups is U_t , n=0,1, so that $\|U_t^{(n)}\| \leqslant 1$, and if $I_{\phi}^{(n)}$ for all $\phi \in D_{I_{\phi}^{(n)}}$ converge at $I_{\phi}^{(n)}$, $(I_{\phi}^{(n)})$ infinitesimal operator of the 1/2-group $U_t^{(n)}$) then $U_t^{(n)}$ f for every $f \in B$ strongly converge to $U_t^{(o)}$ f (Theorem 4.6). Also, if $U_k^{(n)}$, $n=1, 2, \ldots$ sequence of the discrete 1/2-groups ($\|U_k^{(n)}\| \le 1$ - continuous 1/2-group) and if $I_n^{(n)} \varphi$ for every $\varphi \in D_{\underline{I}}(x)$ weakly converges with $I_{\varphi}^{(o)}$ ($I_n^{(n)} \varphi(x) = n(U_1^{(n)} \cdot E) \varphi(x)$) then

Card 5/9

Limit Theorem for Markov Processes

of the process
$$\xi_o(t)$$
, i.e.:
$$\lim_{n\to\infty} \mathbb{P}\left\{\xi_n(0)\in\mathbb{A}_0,\ \xi(t_1)\in\mathbb{A}_1,\dots,\xi_n(t_k)\in\mathbb{A}_k\right\} = \mathbb{P}\left\{\xi_c(0)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_k\right\} = \mathbb{P}\left\{\xi_c(0)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{A}_0,\dots,\xi_n(t_k)\in\mathbb{$$

$$\{\xi_0, \xi_0(t_1) \in A_1, \dots, \xi_0(t_k) \in A_k\}$$
 for all $\{\xi_0, \xi_0 \in A_1, \dots, \xi_k \in A_k\}$ for all $\{\xi_0, \xi_0 \in A_1, \dots, \xi_k \in A_k\}$

$$\xi_{n,o}$$
, $\xi_{n,1}$, $\xi_{n,n}$; $n = 1,2,...$ - represents the Markov

chain with the transition probability $P_n(x,A)$ and the expression $\int P_n(x,dy)\phi(y)$ is continuous, then the distribution of the processes $\xi_n(t)$ converges with the process $\xi_c(t)$ (Theorem 5.7). The case when the convergence of the infinitesimal operators is everywhere uniform must be considered separately. Thus, if $\int P_n(x,dy)f(y)$ is continuous on x for the continuous function:

f(x), $n \int_{\Gamma_n} P_n(x, dy)(\phi(y) - \phi(x)) \rightarrow I_{\phi}^0$ (where I^0 - infinitesimal

Card 7/9

Limit Theorem for Markov Processes

operator of the process $\xi_o(t)$) and the distribution of $\xi_o^{(n)}$ is weakly converging with the distribution $\xi_o(0)$, then the distribution of the process $\xi_n(t)$, defined by the equation $\xi_n(t) = \xi_k^{(n)}$ for $\frac{k-1}{n} \leqslant t \leqslant \frac{k}{n}$, converges with the distribution of the process $\xi_o(t)$ (Theorem 6.3). It is possible to represent the strong infinitesimal operators by the weak ones, $\Upsilon^{(n)}$. In this case the infinitesimal operator could be suitably determined if the value :

 $\frac{\int P(t, x, dy)\phi(y) - \phi(x)}{t}$ is limited by t and x, while: $\frac{1}{t} \left[\int P(t, x, dy)\phi(y) - \phi(x) \right] \rightarrow \phi(x)$. This can be expressed in terms of the transition probability when Eqs.(6.3), (6.4).

Card 8/9

Limit Theorem for Markov Processes

(6.5) can be satisfied and $\limsup_{n \to \infty} nPP_n(x, V_r(x)) = 0$.

Then, the Eq.(6.6) will be true for every T>0 (Theorem 6.5). The convergence of J_1 can be defined in a similar manner. It can be shown that under certain conditions for every J_1 , the distribution $F(\xi_n(t))$ weakly converges with the distribution $F(\xi_n(t))$, or if the process $\xi_n(t)$ is described by the relation $\xi_n(t) = \xi_n^{(n)}$, $t_n^{(n)} \leqslant t \leqslant t_{n+1}^{(n)}$, then the distribution $F(\xi_n(t))$ will converge with the distribution $F(\xi(t))$. There are 19 Soviet references and 1 French. SUBMITTED: March 3, 1958.

Card 9/9

CIA-RDP86-00513R001651110017-8 "APPROVED FOR RELEASE: 07/13/2001

SKOROKHOD, A.V.

"On Stochastic Differential Equations."

[Kiev State University imeni T.G.Shevchenko]

report to be presented 5 July 1960 at the 4th Symposium on Mathematics Statistics and Probability - Berkeley, California, 20 Jun- 30 Jul 1960.

GNEDENKO, B.V.; KOROLYUK, V.S.; and SKOROKHOD, A.V.

"On Asymptotic Distributions in the Theory of Probability."

[Kiev State University imeni T.G.Shevchenko]

report to be presented 27 June 1960 at the 4th Symposium on Mathematics Statistics and Probability - Berkeley, California, 20 Jun- 30 Jul 1960.

2116			KH0		i	7	les are a outilise	4 in 18	lons, and se, quan-	in the state of th	a l	ĸ	ĸ	%		3	¢	æ	8	38	k	5 2	83	8	% .		
	FAGE I BOX EXPLAITEDN SOV/4981.	Armenichaniye po teoril veroystnostey i matematicheskoy statistike, Terevan, 1958	Vestquance overshinty po terril vergathostey i matematicheskoy the Vestquance soveshinty by Santybya 1958 g. (Liulian Caferance on the statistis Perran, 19-75 santybya, Santybya, 1958, 1960. 291 p. Tamany of Proballity and Michaelical Santybya, 1844, 1960. 291 p. Pareza, 1991 limetred. 2,500 copies printed.	and the property Akademiya nauk Araganskey SSR.	openions. Mill and Tell (JA. Ambatemyth, B.V. Gaedanko, Ye.B. Dynkin, Yu.Y. Linnik and Mill Staffi (JA. Ambatemyth, B.V. Gaedanko, Ye.B. Dynkin, Tech. Zd.: M.M. Kaplany B. M. Thandyth; M. of Philishing House: A.G. Sikmi; Tech. Zd.: M.M. Kaplany B. M. Thandyth; M. of Philishing House:	The book is intended for mathematicians.	The book contains at articles submitted to the Conference in the conference of probability and mathematical statistics. Some other and extremely of probability and mathematical statistics of publication, while more read at the Conference and educated for publication, will appear, with anone read at the Conference and educated for appear, will appear and active conference and education of the conference of	theses of papers with appears. A seek such publications are quoted. The other publications in some cases, such publications is included as the control of the publicated also and the control of the cont	t us one perfection are indicated. Individual gass, and estrain functions or or publication are indicated uniters, gass, and estrain processes, assertes, spectrain processes.	onse the creates. But items as the sectod of least equiver, the sectod of least educations. Such items as the said functions. Jee, and functions of the seasons and their splications, a schemical and diffusion of the seasons. The seasons and seasons of the seas	permoulls experients, where the community and defective products are com- presented motion, expectly of finite channels, and defective products are of the statement of personalities are mentioned. References accompany none of the	articles. Spring on Aroperty of Accompanying Laws. (Theses)	Dices, B.M. Limit Theorems for Random Quantities on Corport Abelian Groups, [Theses]	Ů	Statelyworldhus, V.A. Limit Theorema for Beterogensons Narkov's Chains (Track)	Vextobyer, B.H. Modern State of the Theory of Genes and Cooperative Genes Theorem	Ecraphera, 1-4-, and I.M. Kanlern. Some Problems in the Theory of	Position Omnes. (Linewas) Januara, Sala Lind Theorems for Large Derintions in the Theory of Lancemann Statutures Chain	integration and the state theorems for Probabilities of Large Matters, Wolfgage, Local Limit Theorems for Probabilities of Large New York Works (1998) to Creamer's Condition	Figuration B.S. On Constructive Proof of the Basic Shanon's Theorem	Ent & bliggle plants of the Processes Francis and Stochestic Pales Processes	Borothod A.V. Randon Measures and their Applications in the Theory	# Stochastic itheres:		Medification of a Stationary stores (These)	Office and the second s	
		Roman	Trudy Va etati Theor Septe Septe		Editoric 8. E	FUID-OSE:	COVENCE: the the	3 1	111	381	449	andre g	Don	Petro	Brate	Torob	. Earl	Post C	T T T	672				2018			

Differentiability of measures corresponding to random process.

Differentiability of measures corresponding to random process.

Part 2: Markov processes. Teor. veroiat. 1 ee prim. 5 no.1:45-53

Part 2: Markov processes. Teor. veroiat. 1 ee prim. 5 no.1:45-53

(MIRA 13:10)

(Chains (Mathematics))

SKOROKHOD, A. V.

USSR/Mathematics - Stochastics

Card 1/1

: Skorokhod, A. V. Author

: A theorem relative to stable distributions Title

Periodical : Usp. mat. nauk, 9, No 2(60), 189-190

: Briefly investigates the analytic nature of stable distribution functions Abstract

for values of the characteristic index alpha less than 1. The case

for alpha greater than or equal to 1 was treated by A. I. Lapin, for the results of which see B. V. Gnedenko and A. N. Kolmogorov, Predel'nyye

raspredeleniya dlya summ nezavisimykh sluchaynykh velichin [Limit distributions for sums of independent random quantities], State Technical

Press, 1949. Acknowledges the guidance of Professor B. V. Gnedenko, who

posed the problem for the author.

: March 6, 1954 Submitted

81712 S/020/60/133/01/08/069 C 111/ C 333

TITLE: A Limit Theorem for Independent Random Variables

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 1, pp. 34-35

TEXT: Let \(\xi_1\), \(\xi_2\), \(\xi_n\), \(\xi_n\), \(\xi_i\) be independent equally distributed random variables for which it is M(\xi_i\) = 0, D(\xi_i\) = 1. Let

 $S_{no} = 0$, $S_{nk} = \frac{1}{\sqrt{n}} \sum_{i=1}^{k} \frac{E_i}{E_i}$

Let the functions $g_1(t)$ and $g_2(t)$ be defined on [0,1], where it is $g_1(0) < 0 < g_2(0)$, $g_1(t) < g_2(t)$ for all t = [0, 1]. Moreover let $|g_1(t_1) - g_1(t_2)| + |g_2(t_1) - g_2(t_2)| \le K |t_1 - t_2|$ for all $t_1, t_2 = [0, 1]$ and a certain K = const. Let Q_n be the probability

X

Card 1/3

81712 S/020/60/133/01/08/069 C 111/ C 333

A Limit Theorem for Independent Random Variables

 $Q_n = P \left\{ g_1(\frac{k}{n}) < S_{nk} < g_2(\frac{k}{n}), k = 0, 1, 2, \dots, n \right\}$

Let the Brown motion w(t) be considered for which it is Mw(t) = 0, Dw(t) = t, Let denote

 $Q = P \left\{ g_1(t) < w(t) < g_2(t), \quad 0 \le t \le 1 \right\} .$ For bounded g_1 , i. e. for the case that

 $P \left\{ \begin{array}{c} \left(\frac{\xi}{2} \right) \right\} > c \left\{ \begin{array}{c} \frac{1}{2} \end{array} \right\} = 0,$ (*)

the author proves: Theorem: There exists a constant H only depending on K, C, $g_1(0)$ and g₂(0) such that for all n it holds:

 $|Q-Q_n| \leq H \frac{\log n}{\sqrt{n}}$ (1)

Card 2/3

81712

s/020/60/133/01/08/069 C 111/ C 333

A Limit Theorem for Independent Random Variables

Yu. V. Prokhorov is mentioned in the paper.

There are 2 Soviet references.

PRESENTED: April 16, 1960, by A. N. Kolmogorov, Academician.

SUBMITTED: April 12, 1960

X

Card 3/3

SKOROKHOD, A.V.

On a problem in the statistics of Gaussian processes. Dop.AH URSR (MIRA 13:10) no.9:1167-1170 '60.

1. Kiyevskiy gosudarstvennyy universitet. Predstavleno akademikom AN USSR B.V. Gnedenko.

(Mathematical statistics)

SKOROKHOD, Anatoliy Vladimirovich; GIKHMAN, I.I., doktor fiz.mat. nauk, prof., otv. red.; MIRONETS, Ye.V., red.;
KHOKHANOVSKAYA, T.I., tekhn. red.

是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,他们就是一个时间,他们

[Studies on the theory of random processes; stochastic differential equations and limit theorems for Markov processes] Issledovaniia po teorii sluchainykh protsessov; stokhasticheskie differentsial nye uravneniia i predel nye teoremy dlia protsessov Markova. Kiev, Izd-vo Kievskogo univ., 1961. 215 p. (MIRA 15:6)

(Limit theorems (Probability theory))
(Differential equations) (Markov processes)